



---

NOTE: THE UPPER LOAD CELL X-AXIS MUST BE ORIENTED TOWARD THE FRONT OF THE LOWER EXTREMITY ASSEMBLY AS IT IS PUT TOGETHER.

---



**Figure #3.2** - Upper Tibia Load Cell Connected to Upper Tibia Tube

2. The Upper Tibia Tube is connected to the Upper Flange of the Tibia Compliant Bushing Assembly (T1LLM400) using three 1/4-28 x 1/2" BHSCS {5/32} and one 1/4-28 x 1/2" FHSCS {5/32}, as shown in **Figure 3.3**. The flat head bolt is used in the countersunk hole which is oriented to the rear of the leg assembly (-X axis).



**Figure #3.3** - Upper Tibia Tube attached to Compliant Bushing

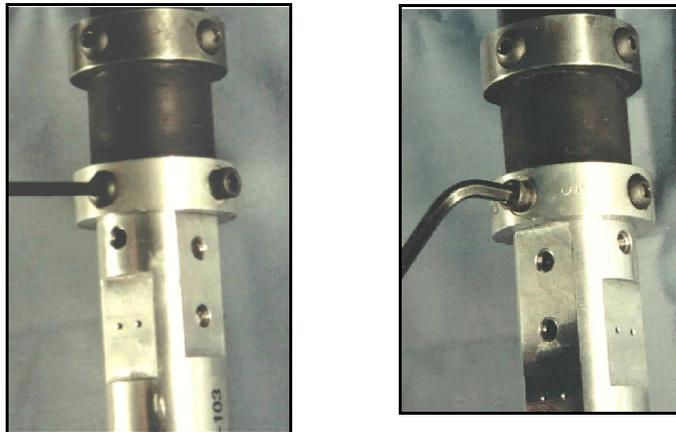
3. Insert the Compliant Bushing Plunger into the linear bearings within the Lower Tibia Tube (T1LLM010). Rotate the Lower Tibia Tube so that there is a flat mounting surface

on the left and right sides, as well as, a flat mounting surface on the front, as shown in **Figure 3.4**. (Note, there should be no flat mounting surfaces on the rear side of the tibia tube, since this side will receive the flat head bolt in the next step.)



**Figure #3.4** - Proper Orientation of the Lower Tibia Tube

4. Secure the Compliant Bushing Assembly to the Lower Tibia Tube using two Plunger Retaining Bolts (T1LLM413) on the Left and Right Sides, one 1/4-28 x 1/2" BHSCS {5/32} in the front and one 1/4-28 x 1/2" FHSCS {5/32} in the rear. This assembly is shown in two views in **Figures 3.5**.



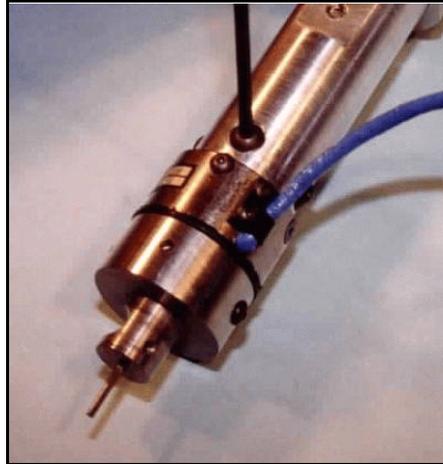
**Figure #3.5**- Securing the Part # T1LLM413 Compliant Bushing (front) (Left and Right Sides use part # T1LLM413)

5. The Lower Tibia Load Cell (Denton: Model 4929) connected to the bottom of the Lower Tibia Tube using four 1/4-28 x 1/2" BHSCS {5/32}, as shown in **Figure 3.6**.

---

NOTE: THE LOWER TIBIA LOAD CELL X-AXIS MUST BE ORIENTED TOWARD THE FRONT OF THE LOWER EXTREMITY ASSEMBLY AS IT IS PUT TOGETHER. THE 3/8" RADIUS NOTCH IN THE LOWER FLANGE OF THE LOAD CELL INDICATES THE POSITIVE X AXIS AND IS ORIENTED TOWARD THE FRONT OF THE ASSEMBLY.

---



**Figure #3.6** - Lower Tibia Load Cell attached to Lower Tibia Tube

6. A uniaxial accelerometer unit is attached directly to the mounting location provided on the front of the tibia tube to measure the X-axis acceleration. Use two #0-80 x 1/4" SHCS {0.05} to attach the uniaxial accelerometer to the flat mounting area on the front of the Lower Tibia Tube, as shown in **Figure 3.7**.



**Figure #3.7** - Attaching X Axis Accelerometer to Front